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APPLICATION NO.		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/722,431		11/28/2003	Takayuki Kondo	117603	7372
25944	7590	09/14/2005		EXAMINER	
OLIFF & BERRIDGE, PLC				PEACE, RHONDA S	
P.O. BOX 19928 ALEXANDRIA, VA 22320				ART UNIT	PAPER NUMBER
,				2874	

DATE MAILED: 09/14/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)						
	10/722,431	KONDO, TAKAYUKI						
Office Action Summary	Examiner	Art Unit						
	Rhonda S. Peace	2874						
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
1) Responsive to communication(s) filed on								
,								
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.								
Disposition of Claims								
- 4)⊠ Claim(s) <u>1-15</u> is/are pending in the application.								
4a) Of the above claim(s) is/are withdrawn from consideration.								
5) Claim(s) is/are allowed.								
6)⊠ Claim(s) <u>1-6.9,and 13-15</u> is/are rejected.								
7) X Claim(s) 7,8,10-1 1s/are objected to.								
8) Claim(s) are subject to restriction and/or election requirement.								
Application Papers								
9) The specification is objected to by the Examiner.								
10)⊠ The drawing(s) filed on <u>28 November 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.05(a).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority under 35 U.S.C. § 119								
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)☑ All b)☐ Some * c)☐ None of:								
1.⊠ Certified copies of the priority documents have been received.								
2. Certified copies of the priority documents have been received in Application No								
3. Copies of the certified copies of the priority documents have been received in this National Stage								
application from the International Bureau (PCT Rule 17.2(a)).								
* See the attached detailed Office action for a list of the certified copies not received.								
•								
Attachment(s)								
1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date.								
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152) 6) Other:								

Application/Control Number: 10/722,431

Art Unit: 2874

DETAILED ACTION

Priority

Receipt is acknowledged of papers submitted on 3/26/2005 and 11/28/2003 under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

RS

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) The invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-6, 9, 14, and 15 are rejected under 35 U.S.C. 102(b) as being anticipated by Leone et al (US 5793909).

Pertaining to claim 1, Leone et al (US 5793909) discloses an optical monitoring and test access module comprising a plurality of circuit blocks 16a and 18b, and several optical waveguides 52 and 74, as well as intra-connective waveguides upon each circuit block 16a and 18b which can be seen in Figure 3 (Figure 2-3, column 5 lines 25-39). Note that only block 16a is shown within Figure 3, for simplicity purposes. These waveguides serve to transmit signals within each of the blocks 16a and 18b, as well as in between the blocks 16a and 18b. In addition, each circuit block is provided with wavelength division multiplexers 124, 144, and 148, which divide the incoming signal from input 32 into multiple wavelengths, allowing multiple wavelengths to be transmitted

within the block **16a**, as well as from block **16a** to block **18b** (Figures 2-3, column 5 lines 44-50 and column 7 lines 9-20). This module is provided with an electrical backplane **72** and is capable of being mounted upon an integrated circuit chip (column 5 lines 51-56).

Page 3

With regards to claim 2, Leone et al shows that each of the circuit blocks **16a** and **18b** are electrically connected to one another via electrical backplane **72**, and optically connected to one another via optical backplane **74** (column 5 lines 31-39, Figure 2).

With respect to claims 3-5, a system of several optical waveguides is used in order to create connections between blocks **16a** and **18b**, as previously mentioned. Waveguide **52** is placed upon the top surface of the circuit blocks, as seen in Figure 2, providing a detour route around each of the blocks **16a** and **18b** (column 5 lines 31-39, Figure 2). In addition, a series of waveguides is placed upon the circuit blocks, as it is illustrated with respect to circuit block **16a** in Figure 3, so as to traverse each block (column 5 lines 25-28, Figure 3).

Speaking to claim 6, Leone et al discloses the use of a LED **154**, formed within the circuit block and electrically connected to it, to emit a light of a predetermined wavelength into an intra-block waveguide to be accepted by microcontroller **128** (column 7 lines 1-3, Figure 3). In addition, Leone et al explains the possible use of a photodiode, formed within the circuit block and electrically connected to it, that receives the above-mentioned light of a predetermined wavelength from microcontroller **128**, and modifies it into an electrical signal (column 6 lines 28-33, Figure 3).

Application/Control Number: 10/722,431 Page 4

Art Unit: 2874

Addressing claim 9, Leone et al teaches the circuit blocks **16a** and **18b** may contain sensors, which may be considered bio sensors, as they are capable of monitoring their surrounding environment with regards to variables such as temperature (column 8 lines 16-34).

As to claims 14 and 15, as previously discussed, Leone et al discloses the use of a photodiode, which receives optical signals from microprocessor 128, and transforms these optical signals into electrical signals, thereby making the device an electro-optical device (column 6 lines 28-34). In addition, the presence of the electrical backplane 72, as well as the capability of merging the device with an integrated circuit chip as previously discussed, means this device can also be considered an electronic apparatus (column 5 lines 51-65).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.

4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claim 13 is rejected under 35 U.S.C. 103(a) as being unpatentable over Leone et al (US 5793909).

Addressing claim 13, Leone et al discloses the device as described above. However, the substance of claim 13 calls for duplicating the applicant's device as described in claim 1 in the creation of a larger functional system. It would have been obvious to one of ordinary skill in the art at the time of the invention was made to use the integrated chip device of claim 1 to create a larger system containing a plurality of integrated chip units, since it has been held that mere duplication of the essential working parts of a device involves only routine skill in the art (*St. Regis Paper Co. v. Bemis Co.*, 193 USPQ 8.).

Claim Objections

Claims 7, 8, and 10-12 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter: The applicable prior art discussed within this office action do not disclose, nor do they reasonably suggest, the use of light emitting and light receiving elements being in the form of micro-tile shaped elements. As all of the claims indicated above contain this distinct limitation, it is the opinion of the examiner that this limitation is new over the prior art, and is thereby considered patentable material.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rhonda S. Peace whose telephone number is (571) 272-8580. The examiner can normally be reached on M-F (8-5).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rodney Bovernick can be reached on (571) 272- 2344. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Rhonda S. Peace

Art Unit 2874

John D. Lee/ iman/ Examina